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Practitioner's Docket No.: CARSWELL.UTL

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Box Patent Application
 Assistant Commissioner for Patents
 Washington, D.C. 20231



NEW APPLICATION TRANSMITTAL

Transmitted herewith for filing is the patent application of

Inventor: Rufus H. Carswell
 Lucian Kapuscinski

For (title): Fraud Resistant Electronic Coupon Dispensing System

1. Type of Application

This transmittal is for an original (nonprovisional) application.

CERTIFICATION UNDER 37 C.F.R. 1.10*

(Express Mail label number is **mandatory**.)

(Express Mail certification is optional.)

I hereby certify that this correspondence and the documents referred to as attached therein are being deposited with the United States Postal Service on this date July 18, 2000, in an envelope as "Express Mail Post Office to Addressee," mailing Label Number EI379981566US, addressed to the: Assistant Commissioner for Patents, Washington, D.C. 20231.

JAMES A. HINKLE

(type or print name of person mailing paper)

Signature of person mailing paper

WARNING: Certificate of mailing (first class) or facsimile transmission procedures of 37 C.F.R. 1.8 cannot be used to obtain a date of mailing or transmission for this correspondence.

***WARNING:** Each paper or fee filed by "Express Mail" **must** have the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 C.F.R. 1.10(b).
 "Since the filing of correspondence under § 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will **not** be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

2. Benefit of Prior U.S. Application(s)

The new application being transmitted claims the benefit of prior U.S. application. Enclosed are ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

3. Papers Enclosed

A. Required for filing date under 37 C.F.R. 1.53(b) (Regular) or 37 C.F.R. 1.153 (Design)
Application

37 Page(s) of Specification

07 Page(s) of Claims

07 Sheet(s) of Drawing(s)—Formal

B. Other Papers Enclosed

01 Page(s) of Abstract

4. Additional Papers Enclosed

☒ Information Disclosure Statement (37 CFR 1.98)

☒ Form PTO-1449 (PTO/SB/08A and 08B)

☒ Citations

5. Declaration or Oath

Enclosed

Executed by:

● inventors.

6. Inventorship Statement

The inventorship for all the claims in this application is the same.

7. Language

English

8. Assignment

An assignment of the invention to ON THE NET COUPONS.COM, L.L.C. is attached. A separate "COVER SHEET FOR ASSIGNMENT (DOCUMENT) ACCOMPANYING NEW PATENT APPLICATION" is also attached.

9. Fee Calculation (37 C.F.R. 1.16)

Regular Application

CLAIMS AS FILED					
Claims	Number Filed	Basic Fee Allowance	Number Extra	Rate	Basic Fee 37 CFR 1.16(a) \$690.00
Total Claims (37 CFR 1.16(c))	20	- 20 =	0 x	\$18.00	\$0.00
Independent Claims (37 CFR 1.16(b))	03	- 3 =	0 x	\$78.00	\$0.00
Multiple Dependent Claim(s), if any (37 CFR 1.16(d))			+	\$270.00	
Filing Fee Calculation					\$690.00

10. Small Entity Statement(s)

Statement that this is a filing by a small entity under 37 CFR 1.9 and 1.27 is attached.

Filing Fee Calculation (50% of above) \$345.00

11. Fee Payment Being Made at This Time

Enclosed

Filing Fee \$345.00

Recording assignment
(\$40.00; 37 C.F.R. 1.21(h))
(See attached "COVER SHEET FOR
ASSIGNMENT ACCOMPANYING NEW
APPLICATION".)

\$40.00

Total Fees Enclosed \$385.00

12. Method of Payment of Fees

Check in the amount of \$385.00, check no. 6798, is attached.

13. Instructions as to Overpayment

Refund.


SIGNATURE OF PRACTITIONER

Reg. No. 22,221

James A. Hinkle

Tel. No.: (770) 995-8877

HINKLE & ASSOCIATES, P.C.

395 Scenic Highway

Customer No.: 021590

Lawrenceville, Georgia 30045

☒ **Incorporation by reference of added pages**

- ☒ Plus Added Pages for New Application Transmittal Where Benefit of Prior U.S. Application(s) Claimed

Number of pages added 1

- ☒ Plus Added Pages for Papers Referred to in Item 4 Above

Number of pages added 4

- ☐ Plus added pages deleting names of inventor(s) named in prior application(s) who is/are no longer inventor(s) of the subject matter claimed in this application.

Number of pages added _____

- ☒ Plus "Assignment Cover Letter Accompanying New Application"

Number of pages added 3

**ADDED PAGES FOR APPLICATION TRANSMITTAL WHERE BENEFIT OF
PRIOR U.S. APPLICATION(S) CLAIMED**

14. Relate Back

WARNING: *If an application claims the benefit of the filing date of an earlier filed application under 35 U.S.C. 120, 121 or 365(c), the 20-year term of that application will be based upon the filing date of the earliest U.S. application that the application makes reference to under 35 U.S.C. 120, 121 or 365(c). (35 U.S.C. 154(a)(2) does not take into account, for the determination of the patent term, any application on which priority is claimed under 35 U.S.C. 119, 365(a) or 365(b).) For a c-i-p application, applicant should review whether any claim in the patent that will issue is supported by an earlier application and, if not, the applicant should consider canceling the reference to the earlier filed application. The term of a patent is not based on a claim-by-claim approach. See Notice of April 14, 1995, 60 Fed. Reg. 20,195, at 20,205.*

A. 35 U.S.C. 120, 121 and 365(c)

NOTE: *"Except for a continued prosecution application filed under § 1.53(d), any nonprovisional application claiming the benefit of one or more prior filed copending nonprovisional applications or international applications designating the United States of America must contain or be amended to contain in the first sentence of the specification following the title a reference to each such prior application, identifying it by application number (consisting of the series code and serial number) or international application number and international filing date and indicating the relationship of the applications. . . . Cross-references to other related applications may be made when appropriate." (See § 1.14(a)). 37 C.F.R. § 1.78(a)(2).*

- ☒ "This application claims benefit of U.S. Provisional Application No. 60/144,532, filed on July 19, 1999."

15. Small Entity (37 CFR § 1.28(a))

- ☒ Applicant has established small entity status by the filing of a statement in parent application 60/144,532 on July 19, 1999.
- ☒ A copy of the statement previously filed is included.

COPY

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Rufus H. Carswell and Lucian Kapuscinski

Serial No.:

Filed on: Filed Herewith

Title: "Fraud Resistant Electronic Coupon Dispensing System"

**STATEMENT CLAIMING SMALL ENTITY STATUS
(37 CFR 1.9(f) and 1.27(b)—INDEPENDENT INVENTOR**

As a below named inventor, I hereby state that I qualify as an independent inventor, as defined in 37 CFR 1.9(c), for purposes of paying reduced fees to the United States Patent and Trademark Office under Sections 41(a) and (b) of Title 35, United States Code, to the Patent and Trademark Office, with regard to the invention described in the specification filed herewith, with title as listed above.

I have not assigned, granted, conveyed or licensed, and am under no obligation under contract or law to assign, grant, convey or license, any rights in the invention to any person who would not qualify as an independent inventor under 37 CFR 1.9(c), if that person had made the invention, or to any concern that would not qualify as a small business concern under 37 CFR 1.9(d), or a nonprofit organization under 37 CFR 1.9(e).

Each person, concern or organization to which I have assigned, granted, conveyed, or licensed or am under an obligation under contract or law to assign, grant, convey, or license any rights in the invention is listed below:

No such person, concern or organization exists.

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

Rufus H. Carswell

(Name of Inventor)

Rufus H. Carswell
Signature of Inventor

Date July 17, 1999

Lucian Kapuscinski

(Name of Inventor)

L. Kapuscinski
Signature of Inventor

Date July 17, 1999

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Rufus H. Carswell and Lucian Kapuscinski

Serial No.:

Filed on: Filed Herewith

Title: "Fraud Resistant Electronic Coupon Dispensing System"

STATEMENT CLAIMING SMALL ENTITY STATUS
(37 CFR 1.9(f) and 1.27(b))--SMALL BUSINESS CONCERN

I hereby state that I am an official of the small business concern empowered to act on behalf of the concern identified below:

ONTHENETCOUPONS.COM, L.L.C.
6445 Powers Ferry Landing, Suite 120
Atlanta, Georgia 30339
USA

I hereby state that the above identified small business concern qualifies as a small business concern, as defined in 13 CFR 121.12, and reproduced in 37 CFR 1.9(d), for purposes of paying reduced fees to the United States Patent and Trademark Office under Sections 41(a) and (b) of Title 35, United States Code, in that the number of employees of the concern, including those of its affiliates, does not exceed 500 persons. For purposes of this statement, (1) the number of employees of the business concern is the average over the previous fiscal year of the concern of the persons employed on a full-time, part-time or temporary basis during each of the pay periods of the fiscal year, and (2) concerns are affiliates of each other when either, directly or indirectly, one concern controls or has the power to control the other, or a third-party or parties controls or has the power to control both.

I hereby state that rights under contract or law have been conveyed to, and remain with, the small business concern identified above, with regard to the invention described in the specification filed herewith, with title as listed above.

If the rights held by the above identified small business concern are not exclusive, each individual, concern or organization having rights in the invention is listed below* and no rights to the invention are held by any person, other than the inventor, who would not qualify as an independent inventor under 37 CFR 1.9(c), if that person made the invention, or by any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

Each such person, concern or organization having any rights in the invention is listed as follows:
No such person, concern, or organization exists.

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small business entity is no longer appropriate. (37 CFR 1.28(b))

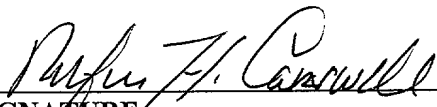
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed..

Rufus H. Carswell

President

6445 Powers Ferry Landing, Suite 120, Atlanta, Georgia 30339

USA


SIGNATURE

Date 7/17/2000

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Rufus H. Carswell

Serial No.:

Filed on: Filed Herewith

Title: "Fraud Resistant Electronic Coupon Dispensing System"

**STATEMENT CLAIMING SMALL ENTITY STATUS
(37 CFR 1.9(f) and 1.27(b)—INDEPENDENT INVENTOR**

As a below named inventor, I hereby state that I qualify as an independent inventor, as defined in 37 CFR 1.9(c), for purposes of paying reduced fees to the United States Patent and Trademark Office under Sections 41(a) and (b) of Title 35, United States Code, to the Patent and Trademark Office, with regard to the invention described in the specification filed herewith, with title as listed above.

I have not assigned, granted, conveyed or licensed, and am under no obligation under contract or law to assign, grant, convey or license, any rights in the invention to any person who would not qualify as an independent inventor under 37 CFR 1.9(c), if that person had made the invention, or to any concern that would not qualify as a small business concern under 37 CFR 1.9(d), or a nonprofit organization under 37 CFR 1.9(e).

Each person, concern or organization to which I have assigned, granted, conveyed, or licensed or am under an obligation under contract or law to assign, grant, convey, or license any rights in the invention is listed below:

FULL NAME: ONTHENETCOUPONS.COM, L.L.C.

ADDRESS: 6445 Powers Ferry Landing, Suite 120, Atlanta, Georgia 30339

☒ SMALL BUSINESS CONCERN

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

Rufus H. Carswell

(Name of Inventor)

Rufus H. Carswell
Signature of Inventor

Date 7/17/2000

Lucian Kapuscinski

(Name of Inventor)

Lucian Kapuscinski
Signature of Inventor

Date 7/17/2000

FRAUD RESISTANT ELECTRONIC COUPON DISPENSING SYSTEM

CROSS-REFERENCE TO RELATED APPLICATIONS

This application claims the priority benefit of U.S. Provisional Application 60/144,532 filed July 19, 1999, entitled "Fraud Resistant Electronic Coupon Dispensing System".

BACKGROUND OF THE INVENTION

I. Field of the Invention

The present invention relates to the field of redeemable product discount coupons, and more particularly to systems for generating and redeeming product discount coupons over public computer networks, such as the Internet, thereby providing a security system to prevent the unauthorized issuance of multiple coupons from a single computer and to detect copied coupons.

II. Description of the Related Art

The ability of a consumer to print coupons on a home computer and printer from a public network such as the Internet has existed for some time. It has been observed that most businesses presently offering coupons are small businesses with a direct relationship with their customers. There are virtually no packaged goods manufacturers offering product discount coupons at the present time because there exists a lack of security from dishonest intermediaries, typically grocery and drug store managers and owners. The basic lack of security for this market stems from the fact that multiple copies of the same coupon can easily be printed on the home computer or copies of one coupon can be made from a single printed coupon. As coupons, particularly manufacturer's coupons, have both monetary value and barter value, there are those dishonest intermediaries who try to cheat the system. For example, a "50 cents off" coupon is presented by a customer to a store, and the store credits the customer 50 cents on the purchase of the product. The store then turns in the "50 cents off coupon to the manufacturer and receives 50 cents in cash. In the volume that coupons are issued, fraud can impose a large negative financial impact on a manufacturer or coupon redeemer. Packaged goods manufacturers and some other coupon issuers do not use public computer network produced coupons because they have to work through an intermediary

leaving the major corporation open to potentially dishonest intermediaries who may be inclined to redeem bogus coupons and receive large amounts of cash or other consideration from the coupon issuing corporation.

There are various types of electronic coupon communication systems known in the art for issuing product discount coupons, and there are systems for redeeming these coupons electronically. Essentially, the long developed procedure for utilizing product discount coupons on packed goods generally starts with a coupon in paper form which contains an industry standard bar code, the Universal Product Code ("UPC Code") that contains the assigned product description number and other necessary information. The coupon is then put into the hands of the consumer by any number of methods such as direct mail, written media inserts and the like. The consumer then takes the coupon to the store where the consumer purchases the product, and receives the discount noted on the coupon at the point of sale. Subsequently, the store clerk who handles the coupon at the point of sale scans the coupon bar code into the store computer, or the coupon can be later scanned at a location rather than the point of sale. The information from the coupon UPC Code is logged into a store database that note the product and how much the manufacturer owes the store for the discount. The store then bags or packs all the coupons it has received (typically unsorted) and sends the coupons to a coupon clearinghouse/redemption center in which the store has under contract for that purpose. The clearinghouse runs the unsorted coupons through a bar

code scanner, which sorts the coupons and determines the product manufacturer's contracted coupon clearinghouse and sends these sorted, scanned coupons to the respective clearinghouses. At this point, the manufacturer's clearinghouse receives the coupons and again runs them through a bar code scanner that records the necessary information contained
5 in the bar code, such as the name of the manufacturer, the product number, the amount of the discount and other like information, and then the manufacturer's clearinghouse calculates the amount owed to the individual store and returns a check for that amount to the respective store. The clearinghouse then typically invoices the amount paid to the manufacturer, plus any other charges as applicable.

10 Typical of the practice just described, is the patent to Jovicic et al. (US 5,855,007) that shows an electronic coupon communication system much as just described. The system of this patent requires a separate server and database to log coupon serial numbers and this server database system must be contracted when the coupon is made and when it is redeemed, but, more importantly, the system of Jovicic does not have a full security system
15 for determining and preventing the issuance of multiple coupons and the redemption thereof. This particular patent has a coupon verification system that includes verifying the validity of an electronic coupon at a redemption center by accessing the computers network notification center's coupon generation database, but does not discriminate between coupons

that may have been printed on a multiple basis from a single computer. Therefore, the security system of this particular patent fails to eliminate the production of multiple coupons from a single source.

SUMMARY OF THE INVENTION

5 In general, the invention provides a system and method for issuing on-line promotions such as coupons over public computer networks, solving the problem of security with respect to a consumer or a store owner/employee attempting to redeem multiple coupons from a single computer. The present invention addresses the security problem on the front end of the system of issuing coupons by a method to allow one and only one
10 coupon to be printed from a single computer. While this can still allow a consumer to make multiple copies of that printed coupon, the present invention combats the security problem on the back end of the coupon issuing system by having a second security method that detects copied coupons.

In one aspect the invention features a promotion issuing system that includes a first
15 computer connected to a network, the first computer having a memory, at least one additional computer connected to the network, the at least one additional computer having a memory

and a first process that resides in the memory of the first computer with instructions to distribute a promotion on the network, identify the downloading of the promotion by the at least one additional computer, allow the at least one additional computer to download the promotion and terminate any further attempts by the at least one additional computer to
5 download the promotion any additional times.

In an implementation, the system also includes an additional process residing in the memory of the at least one additional computer where the additional process has instructions to record a unique identifier associated with the promotion about the promotion and communicate with the first process in the determination to allow the download if the cookie
10 has been recorded and to terminate the download if the cookie has been recorded any additional times, or alternatively identify the user each time the at least one additional computer attempts to download the promotion, allow the at least one additional computer to download the promotion if it has been identified once and terminate any additional downloads if the at least one additional computer has been identified more than once.

15 In another implementation, the system includes a data structure stored in the memory of the first computer and a copy of the data structure stored in the at least one additional computer.

In another implementation, the first computer is adapted to allow the at least one additional computer to download the promotion and record the copy of the data structure and terminate any further download attempts made by the at least one additional computer if the data structure is recorded in the memory of the first computer any additional times.

5 In yet another implementation, the system includes a device coupled to the first computer and the at least one additional computer, the device being adapted to disallow more than one download of the promotion by the at least one additional computer.

10 In another aspect, the invention features a method of managing on-line promotions including using a first computer to distribute promotions on a network, wherein the promotions are adapted to be downloaded by computers, tracking each of promotions that are downloaded on one or more of the computers and identifying and terminating attempts to download any one of the promotions more than once on any one of the computers.

In an implementation, the promotions are available to one or more of a plurality of network locations such as web sites.

15 In another implementation, the promotions are tracked by a process that resides on one or more of the computers.

In another implementation, the method stores unique identifiers associated to each of the promotions on the first computer.

5 In still another implementation, identifying and terminating attempts to download the promotion more than once includes allowing any one of the computers to download any one of the promotions if the process matches its identifier with the identifier in the first computer and disallowing any one of the computers to download any one of the promotions if the process matches its identifier with the identifier in the first computer any additional times.

10 In yet another implementation, the method includes using the process to identify components of each of the computers and storing data corresponding to the components in the process and on the first computer.

15 In another implementation, identifying and terminating attempts to download the promotion more than once includes allowing any one of the computers to download any one of the promotions if the data corresponding to the components matches with the data corresponding the components on the first computer and disallowing any one of the computers to download any one of the promotions if the data corresponding to the components matches with the data corresponding to components on the first computer any additional times.

In another implementation, each of the promotions is tracked by a file that resides on one or more of the computers.

In another implementation, each of the promotions is tracked by a device coupled to the first computer and to each of the other computers.

5 In another implementation, the method includes limiting the duration that the promotion can be validly downloaded by one or more of the computers.

In another implementation, the method includes associating a second unique identifier with each of the plurality of promotions, determining if there exists a copy of any one of the plurality of promotions and disallowing the copy to be redeemed.

10 In still another aspect, the invention features a method of preventing abusive use of an on-line promotion, including providing the promotion with a unique identifier, distributing security software to a computer that is attempting to download the promotion, using the security software to record the identifier, denying a download if the security software has recorded the identifier more than once, optionally printing the promotion if the
15 download has not been denied and checking the printed promotion for copying.

One advantage of the invention is that the systems and methods described overcome the difficulties of the prior art in that they work within the long established coupon issuing arrangement used by packaged goods manufacturers, and other coupon issuers, and requires no additional equipment to be purchased by the manufacturer, the retail store or the coupon clearinghouse. The present invention does require that the coupon clearinghouse make a minor modification to its UPC Code reading and logging software to possibly read additional digits within the bar code which relate to a discrete serial number on each coupon, or other identifying data. Not every coupon clearinghouse requires such a modification, but only those who contract with packaged goods manufacturers using the coupon issuing system covered under the invention.

A feature of the invention is the ability to identify a single computer and to know that such single computer has received a specific coupon. The identification of the single coupon issuing computer is the front end portion of the present system, and such a computer is identified by the invention by one of several methods including but not limited to installing a cookie including a serial number on the printing computer allowing a server to access the cookie, using a query program allowing information about the recipient's computer to be queried, and by identifying hardware.

Another security aspect of the invention is the back end of the coupon issuing system which detects copied coupons. The security feature includes a unique identification (I.D.) or serial number printed on the issued coupon and imbedded in the bar code. By this method of security on the back end of the coupon issuing process, the product manufacturer
5 has control over the numbers of coupons that have been issued, thus limiting the manufacturer's liability for payment.

Other features, aspects, advantages and capabilities of the invention will become apparent from the following description taken in conjunction with the accompanying
10 drawings showing the embodiments of the invention.

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 illustrates an embodiment of a coupon issuing system;

Figure 2 illustrates a process flow diagram of an embodiment of an operational sequence of a processing and redemption of an issued coupon;

15 Figure 2B illustrates a promotion distribution and tracking process;

Figure 3 illustrates an embodiment of a product manufacturer's web site distribution arrangement;

Figure 4 illustrates an embodiment of a self-standing multiple coupon web site distribution arrangement;

5 Figure 5 illustrates an embodiment of an Internet recipe web site distribution arrangement;

Figure 6 illustrates an embodiment of a specially engineered Internet web page distribution arrangement;

10 Figure 7 illustrates an embodiment of an e-commerce retail web site distribution arrangement;

Figure 8 illustrates an embodiment of a user placed promotion distribution arrangement; and

Figure 9 illustrates an embodiment of a network coupon having security features.

DETAILED DESCRIPTION OF THE INVENTION

Referring to the drawings wherein like reference numerals designate corresponding parts throughout the several figures, reference is made first to Figures 1 and 2 that illustrate an embodiment of a coupon issuing system and an embodiment of the operational sequence of a coupon issuing and processing process, respectively. The term promotion is typically used below and includes any offer made on the network such as a coupon, certificate or any offer that can be used to discount a product and can be redeemed for value. For simplification, the process flow diagram of Figure 2 is shown in block format and are described herein. When the consumer who wishes to be issued a coupon makes an initial request through the consumer's computer 11 to the computer network server (not shown) where the coupon has been placed by the product manufacturer, the consumer's computer 11 asks the coupon issuing server 12 to print a coupon to the recipient's computer printer 13.

Front End Security

The identification of a single issuing computer 11 is the front end security feature of the system shown in Figure 1. The computer 11 can be identified by many methods.

The first method of identification of a single coupon issuing computer 11 is by installing on the computer 11 a "cookie" that is a small program that can be sent by the coupon issuing server 12 or another server or device for that purpose, through the public computer network or any linked computer system, including television receivers, and any other device connected to the public computer network. The cookie resides on the receiving unit's system (e.g., computer 11) until removed. The installed cookie includes a code or serial number that can be accessed by the server 12 to identify that particular receiving computer 11 or device. The coupon issuing server may record the identified computer 11 or device in a database. In one implementation, the cookie can record the issued coupon and relay that information to the coupon issuing server 12 if the server 12 requests that information from the cookie. Once it has been determined that a particular coupon has been issued to the identified computer 11 or device, the system does not allow another of the same coupon to be issued to the identified computer 11 or device. The coupon issuing server 12 sends the cookie to reside on the recipient computer's memory as indicated by arrow 14a. The cookie is one of the several methods to accomplish the identification of a single computer.

Another method of identification of a single coupon printing computer (e.g. computer 11) is by using a query program. The coupon issuing server 12 can send a software program, as indicated by arrow 14b, to reside on the recipient's computer 11 over the public

computer network or linked system. This program has the ability to query hardware components for their manufacturer's name, model number, serial number and other available information.

5 From this query, a profile can be developed and kept in raw data form, or calculated into an identifying number that will represent a particular computer such as computer 11 to the coupon issuing server 12. This information can reside either within the query program located within the recipient's computer or it can be transmitted back to the coupon issuing server 12 and stored in a database (not shown). The coupon issuing server 12 uses this
10 information to record all coupons issued to the computer 11 and denies all requests from the recipient's computer 11 to print more than one of any individual coupon. In an implementation, the query program, residing on the recipient's computer 11, records the issued coupon and relays the information to the server 12 should the information be requested from the program by the server 12. In one embodiment, the query program can
15 be used as a cookie or it can be a separate process that can be downloaded from the coupon issuing server 12 by the computer 11. In another embodiment, downloading of this process can be a requirement before a coupon is issued by the server. If the program is not downloaded, then the computer 11 is not able to receive an issued coupon from the server 12.

Another method for identification of a single computer is by additional identifying

hardware. Any hardware that has the capability to provide an individual identifying number and/or name to the coupon issuing server 12 can be used by the secured coupon issuing system as the method for identifying an individual computer indicated by arrow 14c. The coupon issuing server 12 sends the initial page of the coupon issuing software to begin the coupon printing sequence. A unique I.D. or serial number is assigned to the coupon by the server. In an implementation, the serial number can be an alphanumeric number to be printed on the coupon and/or can be placed in the UPC extended bar code so that it can be read by bar code scanning equipment.

An additional method for identification of a single computer is for the server 12 to send a file containing a unique identifier to the computer 11. When the coupon issuing system 1 needs to identify an individual computer it finds the file and checks the identifier with an identifier database that resides on the server 12 or as a peripheral.

The recipient computer 11 then prints the coupon on the recipient's printer 13 for subsequent use by the recipient. After printing one coupon, should the recipient attempt to print another coupon (or press the "back" button on a web page) on the recipient's computer

screen and try to print another coupon, the recipient's computer browser does not print another coupon due to the security features (as described above) on the recipient's computer 11.

5 Built into the coupon issuing software is the ability to set a time limit for the coupon offer. Upon reaching the end of the time limit, the coupon issuing software stops issuing coupons. This time limit can be varied from seconds to years through the software interface that is discussed in detail below.

Back End Security

10 Another security aspect is the back end of the coupon issuing system 1 that detects copied coupons.

15 In general, once a coupon is issued the recipient has only to copy the issued coupon on a copying machine and present multiple copies for payment, even though only one actual coupon might be issued by a particular computer. To overcome the security problem with this aspect of the coupon issuing system 1, a security feature that detects copied coupons is incorporated into the system 1. Every issued coupon has a unique I.D. or serial number printed thereon. This I.D. can be in several places on the coupon and can have several formats. In one implementation, the format for the I.D. is an alphanumeric identifier in large

type to let people know that the coupon has its own serial number. In another implementation, the same number is also placed in the UPC extended bar code so that it can be read by bar code scanning equipment. The extended UPC bar code has digit space available that can be accessed by a coupon issuer's software and used for identification purposes. Effectively, the issuing server 12 can print a discrete identifying serial number with the UPC bar code that can be read by the requisite UPC bar code scanning equipment, thereby determining whether or not a particular coupon has been presented for redemption. If the matching serial number has been presented for redemption then any copied coupons are automatically rejected. This coupon redemption center scans the coupon for information and obtain the I.D. or serial number. The discrete number is placed in the coupon redemption center's computer, along with any other identified information. In one implementation, the coupon redemption center's computer tracks the I.D. or serial number and notes any duplicates. Such information is then available to the manufacturer in order to proceed as the manufacturer deems appropriate concerning the redemption of the duplicate coupons.

Preparation of On-Line Coupons

To facilitate easier construction and preparation of an on-line coupon, a "construction screen" (not shown) is provided with the coupon issuing software. This construction screen is intended to be used solely by the coupon issuer and possibly by clients. In an

implementation, the construction screen is computer protected. The construction screen can contain many features for managing on-line promotions including but not limited to: a coupon template that provides inputs for all necessary elements of an on-line coupon (i.e., UPC code, serial number/I.D., etc.) with an outline of the coupon; inputs to enter all the necessary UPC bar code information (computer software generates the code); an input for coupon artwork allowing placement and editing of the artwork; an input for the time limit of the coupon offer; and an entry for the maximum number of coupons to be issued.

In the event that the recipient computer logs off the network and then logs back onto the network, and the recipient then asks the server 12 to reprint the same coupon (as shown by arrow 15) the server 12 queries the cookie, or other identification processes or apparatus, as indicated by arrow 16, of the recipient computer 11 to determine if this specific coupon has been issued by the recipient computer 11. If the computer 11 determines that this specific coupon has been issued previously to this computer 11, it recognizes that previously issued I.D. of the first coupon and reports the same through arrow 17 to the server 12 that, in conjunction with the cookie or other security process or apparatus, installed in the computer 11, refuse to reissue the same coupon.

During the time the coupon offer is in effect, a computer "reporting screen" (not shown) is used to monitor the progress of the offer. This screen is available to the coupon issuer and to the client. Access to this screen is password protected. The reporting screen can contain many elements including but not limited to: an image of the coupon; a counter that shows that number of coupons issued; the coupon offer beginning and ending date; the maximum number of coupons to be issued; and a control to stop the offer.

Once a coupon offer is complete, the reporting screen shifts to an archive screen (not shown) that is set up for the product's manufacturer. Using a password for entry, the manufacturer is able to view the archive of past promotions.

In the processing of the issued coupon, once the coupon is printed by the recipient's computer 11 and printer 13, then the coupon follows the standard processing routine of manufacturer's product coupons. As shown in Figure 2, a customer 18 who is the recipient of the coupon takes the coupon to a retail or other establishment 21 shown by arrow 19. The establishment 21 accepts the coupon and gives the customer 18 credit of the face value of the coupon towards the purchase of the item as shown by arrow 22. After accepting the coupon from the customer 18, the establishment 21 internally processes the coupon and sends the coupon to the establishment's redemption center 24, as shown by arrow 23.

The coupon redemption center 24 sorts the various coupons received by it using the UPC extended bar code printed on the coupon and sends the sorted coupons to the appropriate manufacturer's contracted coupon center 26, as shown by arrow 25. At the manufacturer's coupon center 26, the various coupons that have been received by it are processed, as shown by arrow 27, through a bar code scanning device 28 that scans the coupon UPC extended bar code and reads the coupon serial number or other identifying indicia. Once the scanner 28 records the UPC code and coupon number, the information is sent to the redemption center's computer 31, as shown by arrow 29, that has been programmed with the option to note and record duplicate coupon serial numbers. A report is generated and included information such as the amount of payment that is made to the redeeming establishment 21, as shown by arrow 31a, or to issue a violation report 32, as shown by arrow 31b, to the manufacturer for further processing by the manufacturer.

Coupon Viewing and Dissemination

The coupon issuing system 1 uses a network link from the viewing web page back to the coupon issuing server 12. This link allows the coupon issuing system 1 to have immense distribution capabilities. A promotion can be placed any one place or multiple places on a network (such as the Internet) allowing for dynamic distribution and does not rely upon a static coupon-oriented web site to be presented to the public.

In one embodiment, the link can be an image, such as an icon or button on any particular web page the user is viewing. When this link is clicked upon or selected, the user is linked to the coupon issuing web site where a coupon can be issued. The coupon issuing server 12 first searches for a security/print program on the user's computer 11. The security/print program is a software program that facilitates the printing of the coupon and assists in operating the security features of the system 1. If this program is located and security is verified, a coupon is immediately issued to the user's computer 11 and is printed to the printer 13. If this program is not found, the server 12 concludes that the user is a new user and offers to download and install the security/print program. Upon successful downloading and installation, a coupon is printed.

Figure 2B illustrates a promotion distribution and tracking process 50. In general, the system in Figures 1 and 2 follow the process 50 which shows an overview of the life of the promotion, illustrating the front and back end security of the system. Referring to Figure 2B, the promotion is made known and available to the public through one or more links 2 from the coupon issuing server 12 with various Internet web site pages 5, identified individually as 5a, 5b, 5c, 5d, 5e, 5f and 5g, all of which are available to the public. A user of the Internet will connect through a computer 11 to one of these various Internet web sites by link 4.

When a link on the web site is activated by the user's computer 11, which will now become the coupon printing computer, the coupon printing computer is connected at 6 to the coupon-issuing server 12. Upon connection of the coupon-issuing server 12 and the coupon printing computer 11, the coupon printing computer 11 makes a request for the coupon offered on the web site in connection 4. The server 12 scans the memory (hard drive) of the coupon printing computer 11 to see if the required coupon security and printing software is installed on the coupon printing computer 11. If the required coupon security and printing software is installed on the coupon printing computer 11 the server 12 proceeds with the coupon issuing and printing process. If the required coupon security and printing software is not found on the coupon printing computer 11, the software is made available to be downloaded from the server 12 onto the coupon printing computer 11. After the software is installed on the coupon printing computer the coupon printing computer 11 is allowed to continue with the coupon issuing and printing process. Once the coupon issuing server 12 is assured the coupon security and printing software is installed on the coupon printing computer 11, the server 12 scans the coupon printing computer's 11 memory, as indicated by arrow 6, for any unique identifiers (cookies, etc.) assigned to individual coupon promotions. If the unique identifier of the requested coupon promotion is **not** found on the coupon printing computer 11, the server 12 transmits the data making up the requested coupon to the coupon printing computer 11. At the same time the server 12 also transmits the unique identifier associated with the requested coupon to the coupon printing

computer 11 to reside in the coupon printing computer's memory. The required coupon security and printing software residing on the coupon printing computer 11 receives this data and proceeds with the printing of the coupon using a printing device connected to the coupon printing computer 11.

- 5 If, during the scan of the coupon printing computer's 11 memory by the server 12, the unique identifier of the requested coupon promotion is found on the coupon printing computer 11, the server will not transmit the data making up the requested coupon.

- 10 The coupon issuing system 1 is capable of distributing promotions in several ways. Promotion distribution typically occurs on relevant web sites. Promotions can be placed singularly on selected web pages or they can appear whenever a product category key word or a UPC code is mentioned on a web page, and that the coupon issuing system 1 has a current promotion on that item.

Typically, several methods of promotion distribution can be used including but not limited to:

- 15 (a) Manual placement of the promotion on the web page.

- 5
- (b) The use of the ability, through a client side application or customized Internet browser and server side process, to scan a web site's database, should it have one, to locate key words or descriptors within the database that describe or indicate a product for which there is a current coupon promotion. Should such key words or descriptors be found, a coupon can be placed as a link on the screen adjacent or relative to the product shown on the screen.
- 10
- (c) The use of the ability, through a client side application or customized Internet browser and server side process, to scan the Hyper Text Markup Language (HTML), eXtensible Markup Language (XML), or Hyper Text eXtensible Markup Language (HTMXL) code or their derivative works, or any future code that is devised that generates the computer monitor screen copy to locate key words or descriptors within the database that describe or indicate a product for which there is a current coupon promotion. Should such key words or descriptors be found, a coupon can be placed as a link on the screen
- 15
- adjacent or relative to the product shown on the screen.

Several distribution arrangements, as discussed below can use one or more of the promotion distribution methods described in the previous paragraph.

Product Manufacturer's Web Site

Figure 3 illustrates an embodiment of a product manufacturer's web site distribution arrangement. Where the product manufacturer has its own web site, the presence of the manufacturer and product is enhanced and opportunities to sell the product are increased.

5 Product coupons offered in the web site act as an reward to the consumer for visiting the site and helps sell and promote the product. A computer 11 is used to view a manufacturers web site, indicated by arrow 34, having a server 33. The manufacturer may place a link anywhere in this web site noting the coupon offer. This link, indicated by arrow 34, when activated, takes the user, as indicated by arrow 35, to a web page located on the coupon issuing server 12 that offers a printable coupon, indicated by arrow 36. This process is generally transparent to the user and the user may not realize that the user has left the manufacturer's web site. After the user prints the coupon using the coupon issuing secure printing software as discussed above, the user is returned to the manufacturer's's web site, indicated by arrow 37, on server 33. All coupons handled in this manner are logged into the coupon issuing server 12 or some other server and is handled as described above.

10

15

Self-Standing Multiple Coupon Web Site

Figure 4 illustrates an embodiment of a self-standing multiple coupon web site distribution arrangement. A self-standing multiple coupon web site is contained on a server 40. A manufacturer can offer the same coupon on the self-standing web site, the

manufacturer's web site (e.g., on server 30 in Figure 3), an on-line grocery web site (as discussed in more detail below) or any other appropriate web site. All web sites offering the same coupon is linked to a master web site that keeps track of all the coupon offers in all of the locations (e.g., the coupon issuing server 12 in Figure 1). In another embodiment, the self standing web site can be operated by the coupon issuing server itself (see Figure 1). In an implementation, the coupon offers can be links that can appear as an image (such as an icon, button or any other graphical element). When the link, indicated by arrow 41, is activated by the user, the user is taken to a web-page located on the coupon issuing server 12, as indicated by arrow 42. If the self-standing web site is located on the coupon issuing server already, the link merely activates the coupon issuing process on the server 12, which issues the printable coupon associated with the link, as indicated by arrow 43. This process is typically transparent to the user and the user may not realize that the user has entered a new web site. After the coupon is printed using the secure coupon printing software (as discussed above), the user is returned to the self standing multiple coupon web site as indicated by arrow 44. The coupons can appear whenever a product category key word or UPC code is mentioned on a web page or other network site, and that there is a promotion available for that product.

A coupon distribution and matching system is used that matches relevant promotions with web pages, such as recipe Internet pages. In one implementation, the coupon issuing

software scans a web site database containing product information, recipe information or other pertinent information. In another implementation, the software scans the HTML, XML or HTXML code, or their derivative works, or any future code that is devised, that generate the computer monitor screen copy. In either of the implementations, during the scan the software looks for key product category identifiers such as, but not limited to, words and phrases. When these identifiers are found that match existing promotions, the coupons, for example, associated with the promotion (or the associated symbol or icon) are printed out on the user's printer (e.g., printer 13 in Figure 1) using the secured coupon printing method discussed above. Other product identifiers such as UPC codes can be used in place of the product category words and the software can scan for the codes.

The following distribution arrangements are embodiments that utilize the coupon distribution and matching system.

Internet Recipe Web Site

Figure 5 illustrates an embodiment of an Internet recipe web site distribution arrangement.

A recipe web site located on a server 70 is an exemplary web site that can utilize the coupon distribution and matching system. A recipe web site can contain numerous products, which may be unique, and are associated with a promotion on the coupon issuing server 12. The coupon generating software is similar to the embodiments discussed above. In further
5 embodiments, the software can be placed on the server 70 that operates the recipe web site. This software scans the recipe web site database containing the recipe information or scans the HTML, XML or HTXML code, or derivative works or any future code that is devised that generates the computer monitor screen copy. The software searches for key words or phrases that match with words or phrases located within the software or on the coupon web
10 site server 12. These words or phrases describe food and product categories relevant to the coupon issuing server 12 promotion. When a match is found, a graphical symbol, such as an icon or button or any other graphical element, is shown on the recipe web site web page with the corresponding recipe. When a user on computer 11 who is viewing the recipe web site, as indicated by arrow 72, clicks or otherwise selects the graphical symbol representing
15 the corresponding product match, a link, as indicated by arrow 73, is activated that routes the user to the coupon issuing server 12, as indicated by arrow 74. The coupon issuing server 12 sends a coupon corresponding to the link to the user's computer 11 as indicated by arrow 75. The coupon is then printed using the secure printing software as discussed above. When completed, the user is returned to the web site 70 and web page where the graphical
20 symbol representing the match originated, as indicated by arrow 72.

In one embodiment, all the graphical symbols representing the available promotions, but not the promotions themselves, reside on the recipe web site server 50. Periodic contact takes place over the network or other link between the coupon issuing server 12 and the recipe web site server 50 to provide new data and new promotion symbols and remove those symbols representing expired promotions.

Specially Engineered Internet Web Pages

Figure 6 illustrates an embodiment of a specially engineered Internet web page distribution arrangement. A specially engineered web page can allow a manufacturer or any web site operator to offer a user of the respective web site the ability to view unrelated Internet recipe web sites, for example, or other web pages and obtain promotions from the coupon issuing server 12 associated with the ingredients and products shown on the screen. A user on computer 11 views the manufacturer's or web site operator's web site on server 60, as indicated by arrow 61. The user is then offered a graphical symbol inviting the user to an area of the web site where the user may view the unrelated web pages. The web pages offered through this web site area contain recipes or the products for which the user can obtain coupons for those recipes and products shown on the screen. When the user clicks or otherwise selects the symbol associated with the promotion that invites the user to the web site, as indicated by arrow 62, a link, indicated by arrow 63 is activated that takes the user to the specially engineered web page located on the coupon issuing server 12. The specially

engineered web page typically appears similar to the manufacturer's or other operator's web site so that the user does not realize that the user has been routed to a different Internet location.

5 At this new location, the user is able to view web pages located anywhere on the Internet. As the user view the web page, software scans the HTML, XML,, or HTXML code or their derivative works, or any future code that is devised, that generates the computer monitor screen copy. The software looks for key words, phrases, or descriptors located within the software or elsewhere on the server 12. The words or phrases describe food and
10 product categories relevant to the coupon issuing server 12 promotion. When a match is found, a symbol representing the available coupon is shown on the specially engineered web page with the corresponding recipe or product.

 When the user selects the symbol representing the promotion, the server 12 sends a promotion, indicated by arrow 65, corresponding to the symbol that was selected to the user's
15 computer 11, to be printed on the user's printer user the secure coupon printing software. When the user is finished using the specially engineered web page, the user is returned to the web site and the web page where the user started, as indicated by arrow 61.

Moving the user through the use of a link to the specially engineered web page allows a fast environment - the scanning/matching software operates on a fast server and graphics and information do not need to travel over the Internet. In addition, all the software and promotion offers remain on the coupon issuing server 12 equipment hereby avoiding potential security problems.

e-Commerce Retail Web Sites

Figure 7 illustrates an embodiment of an e-commerce retail web site distribution arrangement. While viewing products within a retail web site located on a server 80, a user is able to take advantage of any associated promotions that the server 80 offers. A user on computer 11 viewing the web site on server 80, indicated by arrow 82 sees on the monitor of computer 11 one or more products presented by the retail web site. Coupon issuing software licensed or otherwise distributed to the retail web site operator and residing on the server 80 scans the retail web site database containing product information or scans the HTML, XML or HTXML code, their derivative works or any future code that is devised, that generates the computer monitor screen copy. The software looks for the UPC numbers or designations or looks for key words, phrases, or descriptors that match with words or phrases located within the software or on the retail web site server 80. These UPC codes or words, phrases, or descriptors describe the product information relevant to the promotions. When a match is made between the UPC code or the words or phrases found from the scan and any

available promotions, a graphical symbol representing the promotion offer is shown on the retail web site web page with the corresponding product. Typically, the software filters those promotions that do not have a match on both servers 12 and 80.

When the product with the promotion is selected for purchase by the user (many web sites have a checkout basket or shopping cart etc.), the product moves to the checkout area of the web site and the associated promotions follow. At the checkout area an accounting of the products and promotional offers occurs. A typical sequence is that a subtotal for all selected products is displayed along with a listing of the promotional offers and a deductions of the total of all the promotions that correspond with the selected product, and a total, less promotions. The last total is the amount paid by the user on computer 11. The sum of the promotions involved in the transaction is noted in the retail software accounting system and is relayed via the Internet or other network to the coupon issuing server 12 as indicated by arrow 84. The coupon issuing server records the amount sent by the retail web site server 80 and the identifier in order to provide for payments via check or other transfer through a financial institution 87, as indicated by arrow 86. Periodic contact between the coupon issuing server 12 and the retail web site server 80 takes place via the Internet or other network to provide new promotions and remove expired promotions. This e-commerce retail web site distribution arrangement allows for a complete electronic transaction with no paper involved or printing of coupons.

User Places Promotion Viewing Software

Figure 8 illustrates an embodiment of a user placed promotion distribution arrangement. In this arrangement the coupon issuing web site can offer its promotion viewing software to the user to install on the user's computer 1, and through this software, view independent recipe and product web sites and download available promotions related to the recipe ingredients and products.

When the user begins a viewing session using the coupon issuing software, the software residing on the user's computer 11 contacts the coupon issuing server 12, as indicated by arrow 92, through the Internet or other link and requests information regarding the currently available promotions. The server 12 sends back the information to the user's computer as indicated by arrow 94. The user can then proceed to view the recipe and product web sites. As discussed above, the software can scan the HTML, XML, or HTXML code or their derivative works or any future code that is devised, that generates the computer monitor screen copy. These scans look for key product category identifiers such as, but not limited to words and phrases. When these identifiers are found that match existing promotions, the matching graphical symbols representing the available promotions are shown on the computer 11 with the corresponding recipe or product. The user is then able to select the offers that the user wants. These selected offers are temporarily stored on the user's computer 11. At the end of the viewing session, the viewer requests that the

promotions be printed on the user's printer (not shown). The viewing software then contacts the coupon issuing server 12, as indicated by arrow 95, containing the promotions and requests, as indicated by arrow 96, that these promotions be sent from the server 12 back to the computer 11 for printing on the user's printer using the secure coupon printing software as discussed above. This software can be turned on/off by the user. Alternatively, the web sites can have a triggering device, offered by the coupon issuing server's operator to turn the program on and off.

Competing Offers and Tracking

The computer program developed for the coupon issuing system can have the ability to track the buying habits of the people using the individual computers and suggest coupons or other promotions for products that compete with those that they have purchased previously. In addition, when a consumer has selected a coupon to print, the software has the ability to suggest to the consumer other coupons available in competing products.

Figure 9 illustrates an embodiment of a network coupon 900 having security features. This coupon 900 illustrates an embodiment that can be utilized with any of the distribution arrangements discussed above. The coupon 900 includes the amount 901 of the offer and the duration 902 that the offer lasts. The unique serial number 903 for the back end security is also included. The serial number 903 is also used to alert users that the coupon is fraud

resistant and copies should be avoided. The UPC code 904 is also included. Finally, an implementation of the graphical symbol 905 to accept and download the coupon 900 is shown. As discussed above, any icon, symbol or graphical element or link can be used to accept and print the coupon.

5 The software techniques and methods discussed above can be implemented in digital electronic circuitry, or in computer hardware, firmware, software, or in combinations of them. Apparatus may be implemented in a computer program product tangibly embodied in a machine-readable storage device for execution by a programmable processor; and methods may be performed by a programmable processor executing a program of
10 instructions to perform functions by operating on input data and generating output. Further embodiments may advantageously be implemented in one or more computer programs that are executable on a programmable system including at least one programmable processor coupled to receive data and instructions from, and transmit data and instructions, to a data storage system, at least one input device, and at least one output device. Each computer
15 program may be implemented in a high level procedural or object-oriented programming language, or in assembly or machine language, which can be compiled or interpreted. Suitable processors include, by way of example, both general and special purpose microprocessors. generally, a processor receives instructions and data from read-only memory and or RAM. Storage devices suitable for tangibly embodying computer program

instructions and data include all forms of non-volatile memory, including by way of example semiconductor memory devices, such as EPROM, EEPROM, and flash memory devices; magnetic disks such as internal hard disks and removable disks; magneto-optical disks; and CD-ROM disks. Any of the foregoing may be supplemented by, or incorporated in, specially designed application specific integrated circuits (ASICs).

Therefore, the foregoing is considered as illustrative only of the principles of the invention. Further, various modifications may be made of the invention without departing from the scope thereof and it is desired, therefore, that only such limitations shall be placed thereon as are imposed by the prior art and which are set forth in the appended claims.

WHAT IS CLAIMED IS:

1. A promotion issuing system, comprising:

a first computer connected to a network, the first computer having a memory;

at least one additional computer connected to the network, the at least one additional

5 computer having a memory; and

a first process that resides in the memory of the first computer with instructions to:

(a) distribute a promotion on the network;

(b) identify the downloading of the promotion by the at least one additional computer;

10 (c) allow the at least one additional computer to download the promotion; and

(d) terminate any further attempts by the at least one additional computer to download the promotion any additional times.

2. The system of claim 1 further comprising an additional process residing in the memory of the at least one additional computer.

3. The system of claim 2 wherein the additional process has instructions to record a unique identifier associated with the promotion about the promotion, and communicate with the first process in the determination to allow the download if the unique identifier has been recorded and to terminate the download if the unique identifier has been recorded any additional times.

4. The system of claim 2, wherein the additional process has instructions to:

identify the at least one additional computer each time the at least one additional computer attempts to download the promotion,

allow the at least one additional computer to download the promotion if it has been

identified once, and

terminate any additional downloads if the at least one additional computer has been identified more than once.

5. The system of claim 1 further comprising a data structure stored in the memory of the first computer, and a copy of the data structure stored in the at least one additional computer.

6. The system of claim 5 wherein the first computer is adapted to allow the at least one additional computer to download the promotion and record the copy of the data structure, and terminate any further download attempts made by the at least one additional computer if the data structure is recorded in the memory of the first computer any additional times.

7. The system of claim 1 wherein further comprising a device coupled to the first computer and the at least one additional computer, the device being adapted to disallow more than one download of the promotion by the at least one additional computer.

8. A method of managing on-line promotions, comprising:

using a first computer to distribute a plurality of promotions on a network, wherein
the promotions are adapted to be downloaded by a plurality of computers,

tracking each of the plurality of promotions that are downloaded on one or more of
the plurality of computers, and

identifying and terminating attempts to download any one of the plurality of
promotions more than once on any one of the plurality of computers.

9. The method of claim 8, wherein the plurality of promotions are available to one or
more of a plurality of network locations.

10. The method of claim 9 wherein the network locations are web sites.

11. The method of claim 9 wherein each of the plurality of promotions are tracked by a process that resides on one or more of the plurality of computers.

12. The method of claim 11 further comprising storing a unique identifier associated to each of the plurality of promotions on the first computer, and additionally storing the unique identifier in the process.

13. The method of claim 12 wherein identifying and terminating attempts to download the promotion more than once, further comprises allowing any one of the plurality of computers to download any one of the plurality of promotions if the process matches its identifier with the identifier in the first computer, and disallowing any one of the computers to download any one of the promotions if the process matches its identifier with the identifier in the first computer any additional times.

14. The method of claim 11 further comprises using the process to identify components of each of the plurality of the computers, and storing data corresponding to the components in the process and on the first computer.

15. The method of claim 14 wherein identifying and terminating attempts to download the promotion more than once, further comprises allowing any one of the plurality of computers to download any one of the plurality of promotions if the data corresponding to the components matches with the data corresponding to the components on the first computer, and disallowing any one of the computers to download any one of the promotions if the data corresponding to the components matches with the data corresponding to the components on the first computer any additional times.

16. The method of claim 9 wherein each of the plurality of promotions is tracked by a file that resides on one or more of the plurality of computers.

17. The method of claim 9 wherein each of the plurality of promotions is tracked by a device coupled to the first computer and to each of the plurality of computers.

18. The method of claim 9 further comprising limiting the duration that the promotion can be validly downloaded by one or more of the plurality of computers.

19. The method of claim 9 further comprising associating a second unique identifier with each of the plurality of promotions, determining if there exists a copy of any one of the plurality of promotions and disallowing the copy to be redeemed.

20. A method of preventing abusive use of an on-line promotion, comprising:

providing the promotion with a unique identifier,

distributing security software to a computer that is attempting to download the promotion,

5 using the security software to record the identifier,

denying a download if the security software has recorded the identifier moer than once,

optionally printing the promotion if the download has not been denied, and

checking the printed promotion for copying.

ABSTRACT

A method and apparatus for managing on-line promotions is disclosed. A coupon issuing server is used to provide promotions in the form of certificates, coupons, tickets and any other offer on a network that can be downloaded and redeemed either on paper or electronically. The server provides software to computers on a network. The software is used to identify individual computers and to allow the individual computer only one copy of each of the promotions thereby preventing multiple copies of a promotion to be used by any one user.

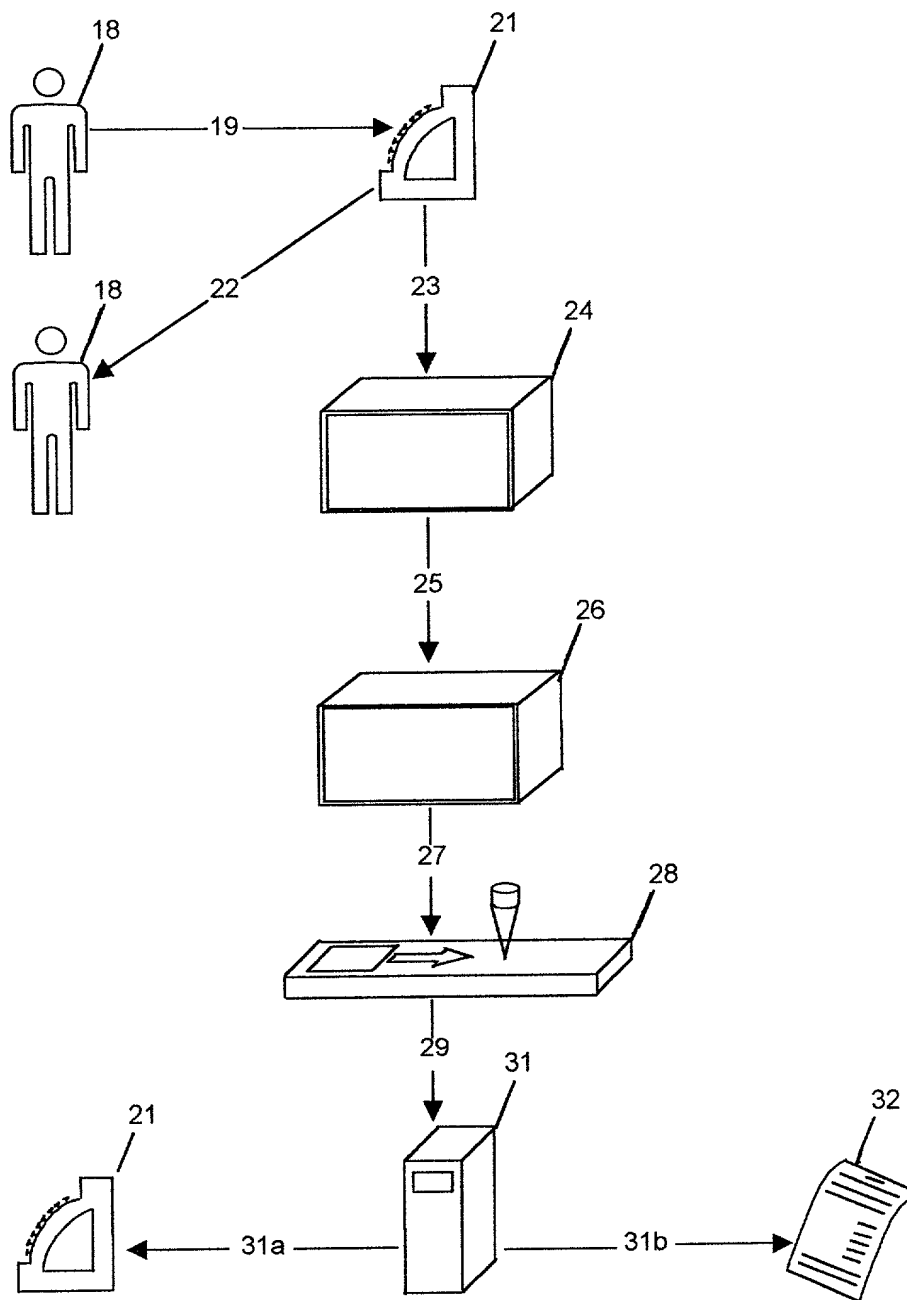


Figure 2

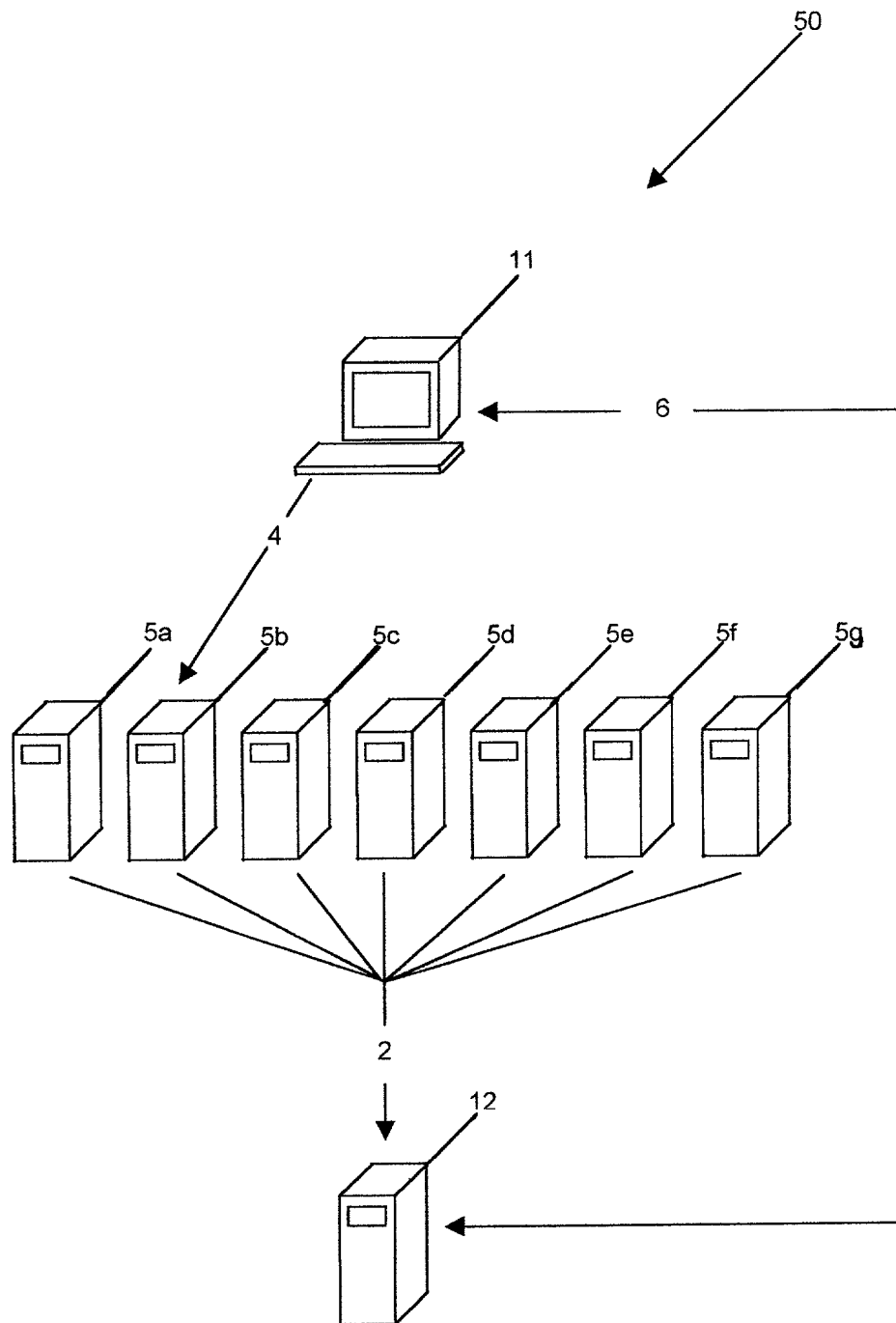


Figure 2b

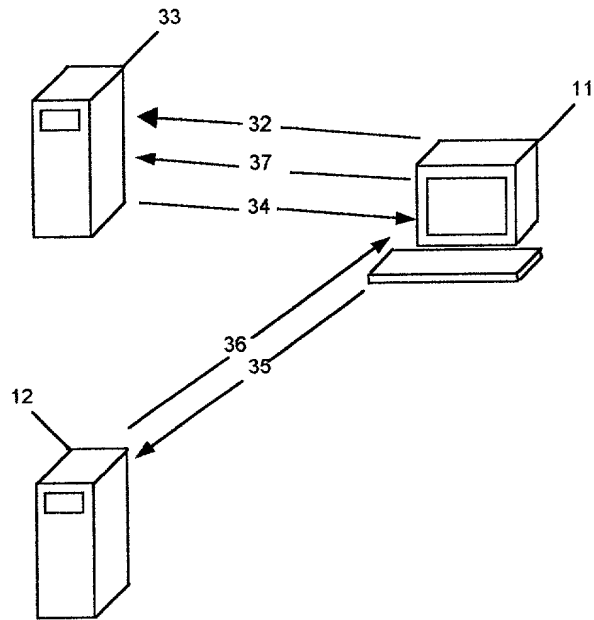


Figure 3

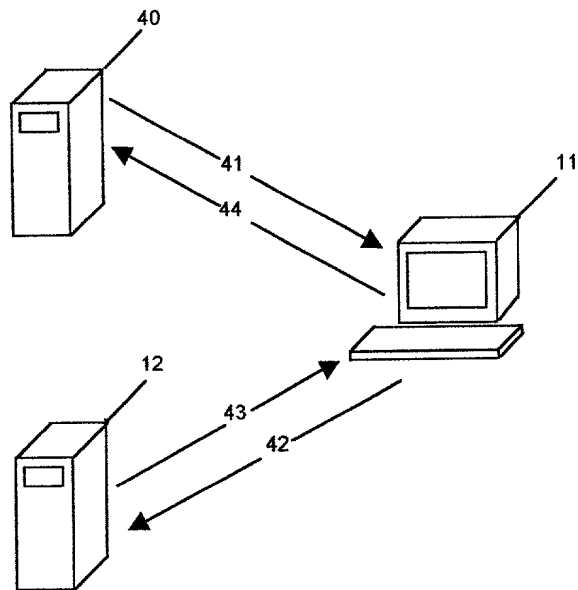


Figure 4

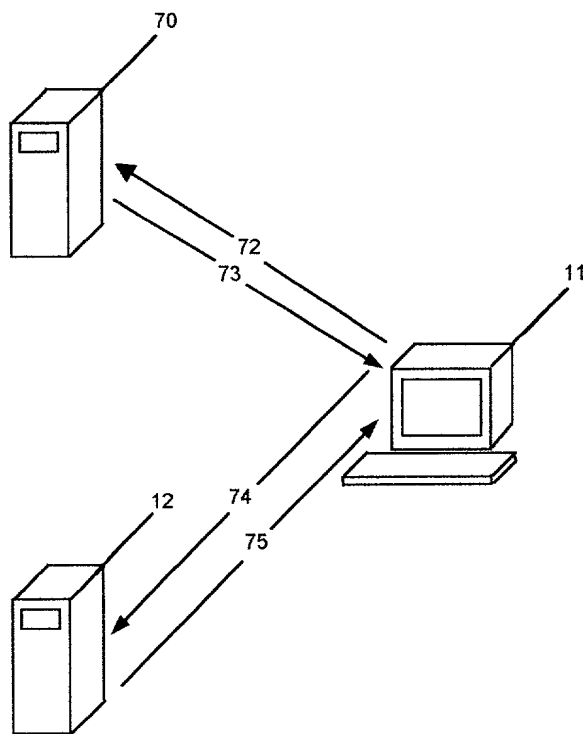


Figure 5

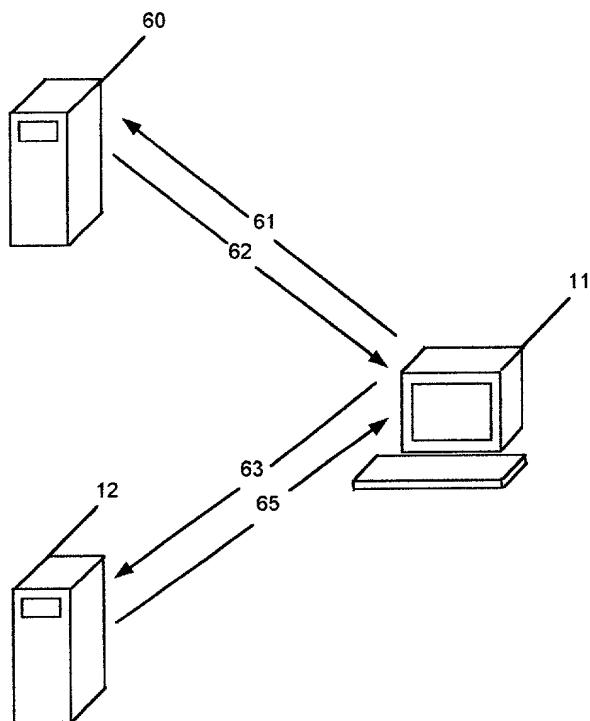


Figure 6

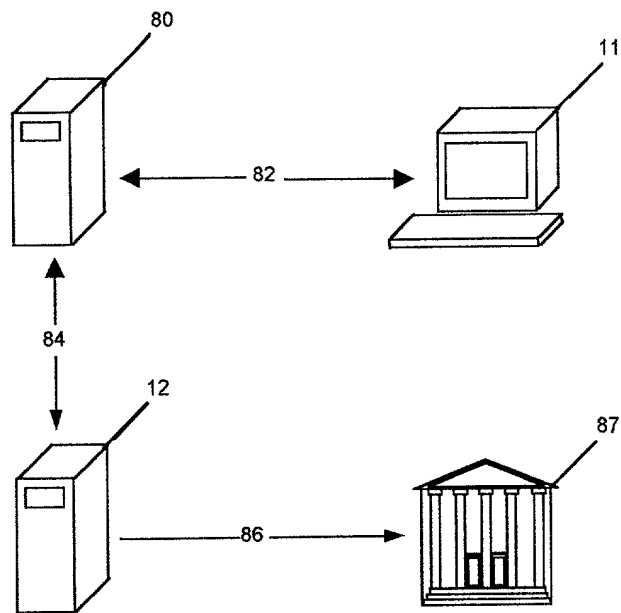


Figure 7

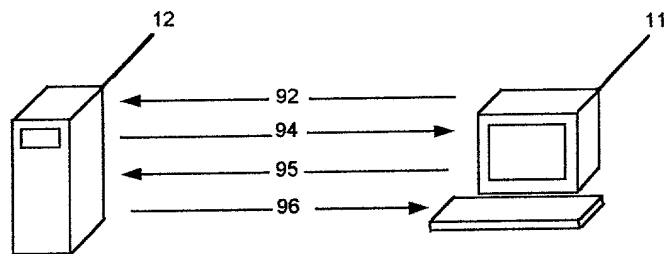


Figure 8

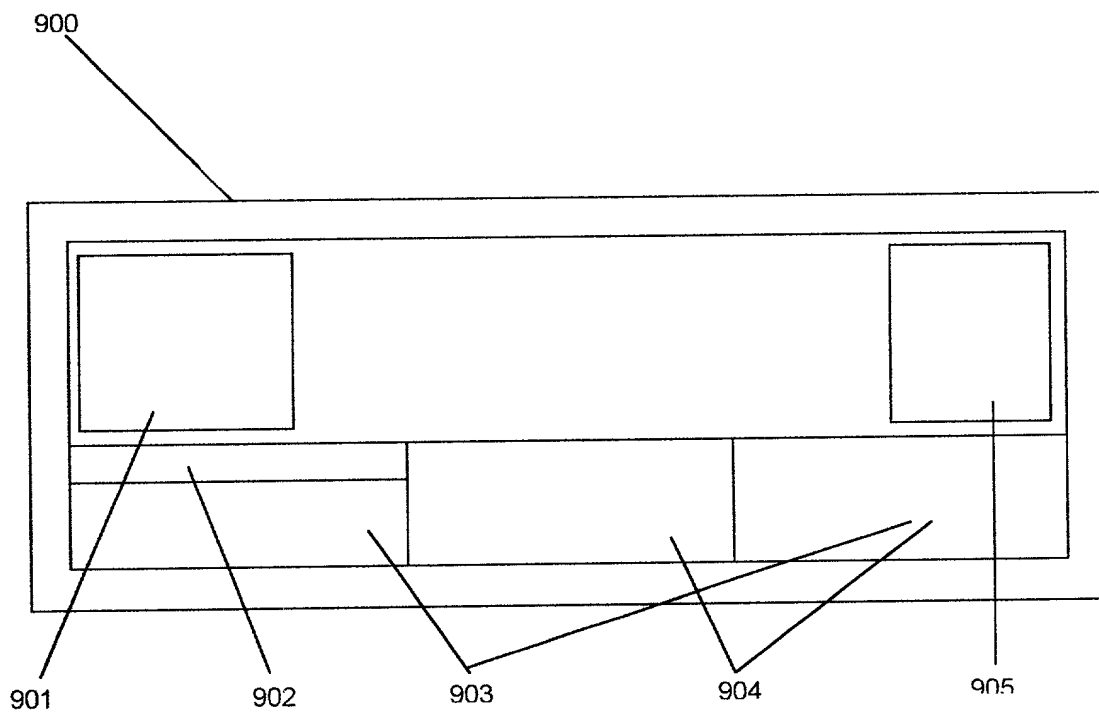


Figure 9

COMBINED DECLARATION AND POWER OF ATTORNEY

(ORIGINAL, DESIGN, NATIONAL STAGE OF PCT, SUPPLEMENTAL, DIVISIONAL,
CONTINUATION, OR C-I-P)

As a below named inventor, I hereby declare that:

TYPE OF DECLARATION

This declaration is for an original application.

INVENTORSHIP IDENTIFICATION

My residence, post office address and citizenship are as stated below, next to my name. I believe that I am the original, first and sole inventor (*if only one name is listed below*) or an original, first and joint inventor (*if plural names are listed below*) of the subject matter that is claimed, and for which a patent is sought on the invention entitled:

TITLE OF INVENTION

Fraud Resistant Electronic Coupon Dispensing System

SPECIFICATION IDENTIFICATION

The specification is attached hereto.

ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information, which is material to patentability as defined in 37, Code of Federal Regulations, § 1.56, and which is material to the examination of this application, namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and in compliance with this duty, there is attached an information disclosure statement, in accordance with 37 CFR 1.98.

PRIORITY CLAIM (35 U.S.C. §§ 119(a)-(d))

I hereby claim foreign priority benefits under Title 35, United States Code, §§ 119(a)-(d) of any foreign application(s) for patent or inventor's certificate or of any PCT International application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT International application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

No such applications have been filed.

CLAIM FOR BENEFIT OF EARLIER US/PCT APPLICATION(S) UNDER 35 U.S.C. 120

The claim for the benefit of any such applications are set forth in the attached ADDED PAGES TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR DIVISIONAL APPLICATION.

POWER OF ATTORNEY

I hereby appoint the following practitioner(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

James A. Hinkle

Registration Number 22,221

I hereby appoint the practitioner(s) associated with the Customer Number provided below to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

SEND CORRESPONDENCE TO:

DIRECT TELEPHONE CALLS TO:

James A. Hinkle, Esquire
HINKLE & ASSOCIATES, P.C.
395 Scenic Highway
Lawrenceville, Georgia 30045

James A. Hinkle
(770) 995-8877

Customer Number: 021590

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

SIGNATURE(S)

Full name of sole or first inventor: Rufus H. Carswell

Inventor's signature: Rufus H. Carswell

Date: 7/17/2000

Country of Citizenship: USA

Residence: 710 Amberidge Trail, Atlanta, Georgia 30328

Post Office Address: 6445 Powers Ferry Landing, Suite 120, Atlanta, Georgia 30339

Full name of second inventor: Lucian Kapuscinski

Inventor's signature: Lucian Kapuscinski

Date: 7/17/2000

Country of Citizenship: USA

Residence: 170 Spalding Drive, N.E., Atlanta, Georgia 30328

Post Office Address: 6445 Powers Ferry Landing, Suite 120, Atlanta, Georgia 30339

This declaration ends with this page.

**ADDED PAGE TO COMBINED DECLARATION AND
POWER OF ATTORNEY FOR DIVISIONAL APPLICATION**

**CLAIM FOR BENEFIT OF EARLIER U.S./PCT APPLICATION(S)
UNDER 35 U.S.C. § 120**

I hereby claim the benefit, under Title 35, United States Code, § 120, of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information

- ☒ that is material to patentability as defined in 37, Code of Federal Regulations, § 1.56

(also check the following item, if desired)

- ☒ and that is material to the examination of this application, namely, information where there is a substantial likelihood that a reasonable examiner would consider it important in deciding whether to allow the application to issue as a patent,

that occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application. (37 CFR 1.63(e)).

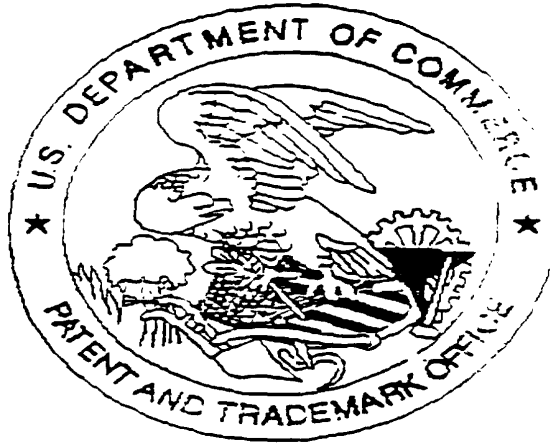
(also check the following item, if desired)

- ☒ In compliance with this duty, there is attached an information disclosure statement, in accordance with 37 C.F.R. 1.98.

**PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS
DESIGNATING THE U.S. FOR BENEFIT UNDER 35 USC § 120:**

U.S. APPLICATIONS		Status (<i>check one</i>)		
U.S. APPLICATIONS	U.S. FILING DATE	Patented	Pending	Abandoned
1. 60/144,532	07/19/99		X	
2.				
3.				
PCT APPLICATION DESIGNATING THE U.S.				
PCT APPLICATION NO.	PCT FILING DATE	U.S. APPLICATION NOS. ASSIGNED (<i>If any</i>)		
4.				
5.				
6.				

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Application deficiencies were found during scanning:

☐ Page(s) _____ of _____ were not present:
for scanning. (Document title)

☐ Page(s) _____ of _____ were not present:
for scanning. (Document title)

☒ There are 6 sheets of drawings

☐ Scanned copy is best available.
